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Science Bridges China
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中英科技桥

四川大學
Sichuan University

Science Bridges China Research Profile

Name:	**Yu Nie**
Position:	**Associate Professor, Foreign-Oriented Secretary**
Institute/division:	**National Engineering Research Centre for Biomaterials**
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SUMMARY OF MY RELEVANT RESEARCH AREAS:

Bio-inspired/Bio-mimic gene/drug delivery system

生物启发型（仿生型）基因/药物传递系统研究

Primary Research interests:

Bio-inspired/Bio-mimic/smart gene/drug delivery,
multi-functional delivery system for targeting cancer therapy,

Topics in which you would like to develop collaborative research:

Bio-inspired/Bio-mimic/smart gene/drug delivery,
multi-functional delivery system for targeting cancer therapy,
novel therapeutic gene research
gene/drug delivery in tissue engineering, angiogenesis and regeneration
Improved delivery system for MDR therapy

Relevant existing collaborations (academic/clinical/commercial) inside or outside China.

University of Bradford, UK, Targeted polymeric micelles for anti-cancer drug delivery
Ludwig-Maximilian University, Germany, targeting gene delivery system

Relevant graphics, figures, pictures:

Publications and other outputs relevant to your interest in this programme

1. Nie Y, Günther M, Gu ZW, and Wagner E. Pyridylhydrazone-based PEGylation for pH-reversible lipopolyplex shielding. Biomaterials 2011; 32: 858-869.
2. Nie Y, Schaffert D, Rödl W, Ogris M, Wagner E, and Günther M. Dual-targeted polyplexes: One step towards a synthetic virus for cancer gene therapy. Journal of Controlled Release 2011; 152: 127-134.
3. Yu HJ, Nie Y, Dohmen C, Li YQ, and Wagner E. Epidermal growth factor–PEG functionalized PAMAM-pentaethylenehexamine dendron for targeted gene delivery produced by click chemistry. Biomacromolecule 2011; 12: 2039-2047.
4. Luo K, Li CX, Wang G, Nie Y, He B, Wu Y, Gu ZW. Peptide dendrimers as efficient and biocompatible gene delivery vectors: synthesis and in vitro characterization. Journal of Controlled Release 2011; 155: 77-87.